

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: 228.1010		SERIAL NO.: 09/980,727	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S): Hubert REIN, et al.			
				FILING DATE: October 19, 2001		GROUP: 1615	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
SO ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	AA	4 1 3 2 7 5 3	01/02/79	Blichare et al.	264	25	11/03/67
	AB	4 5 3 3 5 6 7	08/06/85	Ikegami et al.	424	3	04/19/84
	AC	4 7 8 4 3 7 6	08/16/88	Keith et al.	424	435	02/10/86
	AD	4 8 2 8 8 3 6	05/09/88	Elger et al.	424	418	05/19/87
	AE	4 8 8 2 1 6 7	11/21/89	Jang	424	468	11/24/87
	AF	4 8 8 0 8 3 0	11/14/89	Rhodes	424	470	02/09/87
	AC	4 8 8 4 7 3 4	01/16/90	Sharma et al.	424	440	12/28/89
	AH	4 9 8 4 2 2 7	02/19/91	Dietz et al.	264	328.16	02/03/89
	AI	5 0 2 3 0 8 9	06/11/91	Sakamoto et al.	424	502	07/13/89
	AJ	5 0 5 5 3 6 7	10/08/91	Tsuru et al.	424	693	12/28/89
	AK	5 1 3 3 9 7 4	07/28/92	Paredissis et al.	424	480	01/24/90
FOREIGN PATENT DOCUMENTS							
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
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SO ↓ ↓ ↓ ↓	AL	WO 94 0 8 5 6 8	04/28/94	PCT	A61K	9/26	Abstract
	AM	WO 94 2 3 6 6 8	10/27/94	PCT	A61K	9/14	
	AN	WO 93 2 4 1 1 0	12/09/93	PCT	A61K	9/20	Abstract
	AO	WO 93 0 2 8 5 9	04/29/93	PCT	A61K	9/18	
	AP	0 4 8 1 6 0 0	04/22/92	EPO(A2)	A61L	15/28	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
SO ↓ ↓	AQ	Nicolas Follonier ¹ , Eric Doelker and Ewart T. Cole, <u>Evaluation of Hot-Melt Extrusion as a New Technique for the Production of Polymer-Based Pellets for Sustained Release Capsules containing high loadings of freely soluble drugs</u> , Drug Development and Industrial Pharmacy, 20(8), 1323-1339 (1994)					
	AR	Nicolas Follonier ¹ , Eric Doelker ¹ and Ewart T. Cole ² , <u>Hot-Melt Extruded Pellets for the Sustained Release of Highly Dosed Freely Soluble Drugs</u> , Proceed. Intern. Symp. Control. Rel. Bioact. Mater., 18(1991), pages 578-579					
	AS	Twin Screw Extrusion in the Production of Novel Dosage Forms, Pharmaceutical Manufacturing Review (June 1994)					
EXAMINER 				DATE CONSIDERED 2/8/04			
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U.S. PATENT DOCUMENTS													
*EXAMINER INITIAL	DOCUMENT NUMBER	DOCUMENT NUMBER	DATE	NAME	CLASS	GROUP: 1617							
	BA	5 2 7 3 7 5 8	12/28/93	Royce	424	465	04/13/92						
	BB	5 3 8 0 5 3 5	01/10/95	Geyer et al.	424	484	11/25/92						
	BC	5 2 0 2 1 2 8	04/13/93	Morella et al.	424	469	08/24/90						
	BD	Re. 3 3 0 9 3	10/17/89	Schiraldi et al.	424	676	11/16/88						
	BE	5 3 5 6 6 3 5	10/18/94	Raman et al.	424	484	07/13/93						
	BF	5 1 8 3 6 9 0	02/02/93	Carr et al.	427	213.31	06/25/90						
	BG	5 0 7 3 3 7 9	12/17/91	Klimesch et al.	424	467	08/25/89						
	BH	4 9 5 7 6 8 1	09/18/90	Klimesch et al.	264	211.23	04/03/89						
	BI	5 2 8 3 0 6 5	2/1/94	Doyon, et al.	424	467	3/23/92						
	BJ	4 8 0 6 3 3 7	2/21/89	Snipes, et al.	71	65	10/14/86						
	BK	5 2 9 0 5 6 0	3/1/94	Autant, et al.	424	438	6/21/91						

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DOCUMENT NUMBER	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION			
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	BL	2 0 8 2 5 7 3	05/24/93	Canada	A61K	047/38			
	BM	0 5 8 0 8 6 0	02/02/94	EPO (A1)	A61K	9/14			

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
	B9 Follonier, Nicolas, et al., "Hot-Melt Extruded Pellets For The Sustained Release Of Highly Dosed Freely Soluble Drugs", Capsule News, Vol. 1, No. 3, Edited by Roland Daumesnil, (June/July 1991)
	B0 Frank W. Goodhart et al., Design and Use of a Laboratory Extruder for Pharmaceutical Granulations, Journal of Pharm. Scien., 62(1), p. 133-136 (January 1973).
	BP Publication, KEX, Twin-Screw Compounding Extruder, (October 1989).

EXAMINER	DATE CONSIDERED 2/8/04
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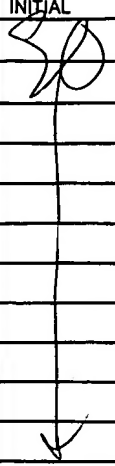
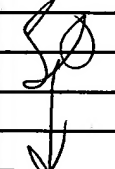
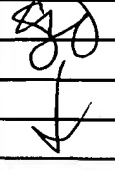
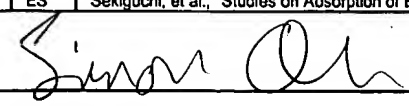
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												4 8 6 1 5 9 8	8/29/89	Oshlack	424	468	7/18/86
												4 8 1 4 4 5 0	4/4/89	Hall, et al.	264	39	10/27/86
												4 7 2 0 3 8 4	1/19/88	DiLuccio, et al.	424	78	8/21/86
												4 3 7 4 0 8 2	2/15/83	Hochschild	264	129	8/18/91
												3 8 8 0 8 9 1	04/29/75	Yolles	424	22	
												4 2 6 5 8 7 5	05/05/81	Byrne, et al.	424	19	
												4 2 9 2 3 0 0	09/29/81	Byrne, et al.	424	19	
												4 3 4 4 4 3 1	08/17/82	Yolles	128	260	
												4 3 4 6 7 0 9	08/31/82	Schmitt	128	260	
											4 4 0 6 8 8 3	09/27/83	Byrne, et al.	424	80		

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								WO 93 1 9 7 5 3	9/30/93	PCT	A61K	9/16		
								WO 92 1 4 1 0 6	10/29/92	Japan	A61K	9/14	Abstract	
								9 3 0 0 0 6 3	01/07/93	WO (A1)	A61J	3/00		
								9 3 1 4 7 6 5	06/10/93	WO (A1)	A61K	9/22		

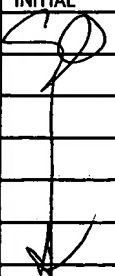
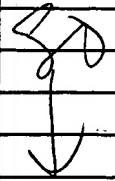

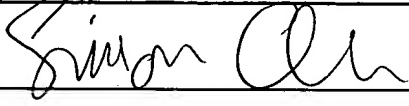
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
	CR	Abstract No. 2-223533 "Agent With Release-Controlled Matrix"
EXAMINER		
	DATE CONSIDERED	2/8/04

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U.S. PATENT DOCUMENTS															
*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
<div style="font-size: 2em;">S/D</div> <div style="border-left: 1px solid black; height: 100px; margin: 0 auto; width: 20px;"></div>	DA	4	6	2	1	1	1	4	11/04/86	Watanabe	524	451			
	DB	4	6	4	9	0	4	2	03/10/87	Davis, et al.	424	438			
	DC	4	8	0	1	4	6	0	01/31/89	Goertz, et al.	424	465			
	DD	4	4	8	0	5	8	5	11/14/89	Klimesch, et al.	284	141			
	DE	4	9	7	0	4	7	5	11/13/90	Oshlack	424	451			
	DF	4	9	5	2	1	0	0	02/12/91	Koeplf, et al.	106	125S			
	DG	5	1	3	2	6	6	8	04/07/92	Eichel, et al.	424	490			
	DH	5	3	5	6	5	5	4	09/27/94	McClelland, et al.	424	501			
	DI	5	4	5	6	9	2	3	10/10/95	Nakamichi, et al.	424	489			
	DJ	4	1	7	3	4	1	7	11/6/79	Kruder	366	89	8/20/78		
	DK	4	2	3	0	6	8	7	10/28/80	Sair et al.	424	22	5/30/78		
	DL	4	7	7	8	6	7	6	10/18/88	Yang et al.	424	79	12/20/85		
	DM	4	8	4	2	7	6	1	6/27/89	Rutherford	252	90	3/23/88		
FOREIGN PATENT DOCUMENTS															
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
													YES	NO	
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	DO	0	2	7	8	8	3	4	07/27/88	EPO (B1)	A61K	9/20			
	DP	0	3	2	0	4	8	0	11/25/92	EPO (B1)	B01F	5/22			
	DQ	0	4	9	1	2	3	8	03/08/95	EPO (B1)	B30B	11/22			
	DR	2	2	0	7	3	5	5	01/23/91	Great Britain (B)	A61M	31/00			
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)															
<div style="font-size: 2em;">S/D</div>	DS	Derwent Abstract DE 2553026 (1978)													
EXAMINER Simon Or										DATE CONSIDERED 2/8/04					
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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	EA	4 8 7 9 1 0 8	11/7/89	Yang et al.	424	440	10/14/88
	EB	4 8 8 2 1 5 1	11/21/89	Yang et al.	424	440	10/14/88
	EC	4 8 8 2 1 5 2	11/21/89	Yang et al.	424	440	10/14/88
	ED	4 8 8 2 1 5 3	11/21/89	Yang et al.	424	440	10/13/88
	EE	4 8 8 2 1 5 5	11/21/89	Yang et al.	424	440	10/14/88
	EF	4 8 8 2 1 5 6	11/21/89	Yang et al.	424	440	10/14/88
	EG	5 3 5 4 6 5 6	10/11/94	Kawashima et al.	536	127	05/23/91
	EH	4 6 8 2 1 5 7	11/21/89	Yang et al.	424	440	10/14/88
	EF	4 6 8 2 1 5 9	11/21/89	Yang et al.	424	440	10/14/88
	EJ	4 9 5 9 2 0 2	9/25/90	Chakrabarti et al.	424	78	10/28/88
	EK	5 0 3 5 5 0 9	7/30/91	Kruder	366	89	8/13/90
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	EL	0 3 6 8 2 4 7	5/16/90	EP (A2)	A61K	9/26	
	EM	0 3 7 5 0 6 3	6/27/90	EP (A1)	A61K	9/18	
	EN	2 2 2 3 5 3 3	9/05/90	JP (A)	A61K	47/14	Abstract
	EO	2 2 2 3 5 1 3	9/5/90	JP (A)	A61K	9/10	Abstract
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	EP	Derwent Abstract of JP 62040277 (1987)					
	EQ	Derwent Abstract of JP58109411 (1983)					
	ER	Derwent Abstract EP 358 107 (1990)					
	ES	Sekiguchi, et al., "Studies on Absorption of Eutectic Mixture.....", Chem. Pharm. Bull., Vol. 9 (1961), pp. 866-872					
EXAMINER 				DATE CONSIDERED 2/8/84			
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				FILING DATE: October 18, 2001		GROUP: 1615								
U.S. PATENT DOCUMENTS														
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	FA	5	2	2	6	1	4	8	7/20/93	Copper	426	5	2/20/92	
	FB	5	2	4	0	4	0	0	8/31/93	Fujimoto et al.	425	310	7/27/92	
	FC	5	2	6	2	1	7	2	11/16/93	Sipos	424	490	6/19/92	
	FD	5	2	6	5	2	6	6	3/22/94	Kunugi et al.	427	213	2/19/91	
	FE	5	3	4	0	5	8	1	8/23/94	Tseng et al.	424	401	6/15/92	
	FF	5	4	7	6	5	2	8	12/19/95	Trimm et al.	71	21	12/20/93	
	FG	5	5	1	0	1	1	4	4/23/96	Borella et al.	424	452	5/2/94	
	FH	5	5	1	6	2	0	5	5/14/96	Oda et al.	366	75	1/12/95	
	FI	5	5	5	2	1	5	9	9/3/96	Mueller et al.	424	464	9/23/93	
	FJ	5	5	5	7	4	3	9	10/22/96	Myers et al.	424	486	11/4/94	
FOREIGN PATENT DOCUMENTS														
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	FM	5	2	5	7	3	1	5	5/11/77	JP	A61K	9/22	Abstract	
	FN		6	6	5	0	1	0	10/14/93	EP (A1)	A61K	9/26		
	FO	1	5	0	4	5	5	3	3/22/78	GB	A61K	47/00		
	FP	8	9	7	6	0	9	1	6/18/92	AU (A)	A23L	001/09		
	FQ	5	4	2	2	4	3	1	10/13/94	WO	A61K	9/20		
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
	FR	A.R. Gennaro, "Particle Phenomena and Coarse Dispersions", Remington's Pharmaceutical Sciences, 17th Edition, 1985, p. 301												
	FS	J.L. Ford, "The Current Status of Solid Dispersions", Pharm. Acta Helv. 61, Nr. 3 (1986), pp. 69-88												
	FT	CA 74:67660 (1996) (1 page)												
EXAMINER 										DATE CONSIDERED 2/8/04				
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	GA	3 7 1 4 3 5 0	01/30/73	Gough	424	203	
	GB	5 1 6 2 1 1 7	11/10/92	Stupak, et al.	424	475	
	GC	5 1 6 5 9 5 2	11/24/92	Solomon, et al.	427	2	
	GD	5 2 3 4 6 9 7	08/10/93	Sipos	424	490	
	GE	5 0 1 3 3 0 6	05/07/91	Solomon, et al.	604	265	
	GF	5 4 5 1 4 2 4	11/19/95	Solomon, et al.	427	2.1	
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	GH	2 0 4 5 9 6	12/10/86	EP	A61K	9/14	Abstract
	GI	5 8 0 8 6 0	02/94	EP (A1)			
	GJ	0 5 2 9 3 9 6	03/03/93	EPO	A61K	9/20	abstract
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	GK	CA 101:60081 (1996) (1 page)					
	GL	CA 113:98975 (1996) (1 page)					
	GM	CA 113:218240 (1996) (1 page)					
	GN	CA 114:30199 (1996) (1 page)					
	GO	CA 112:75438 (1996) (1 page)					
	GP	CA 115:177364 (1997) (1 page)					
	GQ	R. Kinget, et al., "Preparation and Properties of Granulates Containing Solid Dispersions", Acta Phar. Tech., Vol. 31, No. 2, 1985, pp. 57-62					
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	HA	2	7	3	8	3	0	3	3/13/56	Blythe, et al.	167	82	
	HB	3	0	6	5	1	4	3	11/20/62	Christenson, et al.			
	HC	3	6	5	2	5	8	9	3/28/72	Flick, et al.	260	326.5M	
	HD	3	8	3	0	9	3	4	8/20/74	Flick, et al.	424	330	
	HE	3	8	4	5	7	7	0	11/5/74	Theeuwes, et al.	128	260	
	HF	3	9	5	0	5	0	8	4/13/76	Mony, et al.	424	19	
	HG	3	9	6	5	2	5	6	6/22/76	Leslie	424	22	
	HH	3	9	7	4	1	5	7	8/10/76	Shetty, et al.	260	247.2B	
	HI	4	0	1	3	7	8	4	3/22/77	Spelser	424	19	
	HJ	4	0	7	6	7	9	8	2/28/78	Casey et al.	424	419	
	HK	4	2	5	9	3	1	4	3/31/81	Lowe	424	19	
	HL	4	3	1	0	4	8	3	1/12/82	Dorfel, et al.	264	117	

FOREIGN PATENT DOCUMENTS														
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	HN	9	1	1	9	4	8	5	12/26/91	PCT	A61K	9/16	Abstract	
	HO	9	2	0	7	4	4	6	2/6/92	PCT	A61K	9/50		
	HP	9	2	0	2	2	4	9	2/20/92	PCT	A61K	9/22	Abstract	
	HQ	9	2	0	5	7	7	8	4/16/92	PCT	A61K	9/18	Abstract	

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
	ID	M.J. Jozwiakowski et al., "Characterization of a Hot-Melt Fluid Bed Coating Process for Fine Granules", Pharm. Research, Vol. 7, No. 11, 1990, pp. 1119-24
	HS	B. Evrard et al., "Melt Granulation With a New Laboratory High-Shear Mixer", Laboratoire de Pharmacie Galenique, Institut de Pharmacie
	HT	M. Niskanen et al., "Pelletization in a Centrifugal Granulator, Part I: Effects of Binder-Solution Concentration", Pharm. Tech. Int'l., October 1990, pp. 22-38

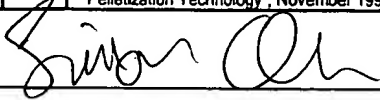
EXAMINER 	DATE CONSIDERED 2/5/04
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FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: 228.1010		SERIAL NO.: 09/960,727		
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S): Hubert REIN, et al.				
				FILING DATE: October 18, 2001		GROUP: 1615		
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL	ID	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	IA	4 3 4 3 7 6 9	8/10/82	Kawata, et al.	424	461		
	IB	4 3 8 6 1 7 2	12/28/82	Lednicer	424	330		
	IC	4 3 8 0 5 9 4	4/19/83	Fukui, et al.	264	38		
	ID	4 3 8 9 3 9 3	6/21/83	Schor, et al.	424	19		
	IE	4 4 2 1 7 3 6	12/20/83	Walters, et al.	424	21		
	IF	4 4 8 3 8 4 7	11/20/84	Augart	424	22		
	IG	4 6 1 3 6 1 6	9/23/86	Sleigh et al.	514	546		
	IH	4 8 0 1 4 5 8	1/31/89	Hidaka, et al.	424	443		
	II	4 6 3 4 9 8 4	5/30/89	Goldie, et al.	424	488		
	IJ	4 6 4 4 9 0 7	7/4/89	Elger et al.	424	465		
	IK	4 8 4 4 9 0 9	7/4/89	Goldie et al.	424	480		
	IL	4 9 1 7 8 0 6	4/17/90	Geoghegan et al.	424	19		
FOREIGN PATENT DOCUMENTS								
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	IN	9 2 2 2 2 6 3	12/23/92	PCT	A61K	9/02		
	IO	9 3 0 0 0 7 6	1/7/93	PCT	A61K	9/51		
	IP	9 3 0 4 6 7 9	3/18/93	PCT	A61K	31/16		
	IQ	9 3 0 7 8 6 1	4/29/93	PCT	A61K	9/50		
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
	IR	L. Lachman et al., "The Theory and Practice of Industrial Pharmacy", p. 315, Lea & Febiger, Phi. 1976.						
	IS	FDA Guide to Inspections of Oral Solid Dosage Forms Pre/Post Approval Issues for Development and Validation, January 1994						
	IT	T. Schaefer et al., "Melt Pelletization in a High Shear Mixer I Effects of Process Variables and Binder", Acta Pharm. Nord. Vol. 4, No. 3, pp. 133-140, 1992.						
EXAMINER				DATE CONSIDERED				
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U.S. PATENT DOCUMENTS														
*EXAMINER INITIAL	JA	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		4	9	2	5	6	7	5	5/15/90	Giannini, et al.	424	78		
		4	9	3	5	2	4	6	6/19/90	Ahrens	424	490		
		4	9	6	7	4	8	6	11/6/90	Doelling	34	1		
		4	9	7	9	0	7	5	11/13/90	Oshlack	424	451		
		4	9	8	7	1	3	6	1/22/91	Kreek et al.	514			
		4	9	9	0	3	4	1	2/5/91	Goldie et al.	424	484		
		5	0	0	7	7	9	6	4/16/91	Shell	424	451		
		5	0	2	6	5	6	0	6/25/91	Makino, et al.	424	494		
		5	0	3	0	4	0	6	7/9/91	Danielson, et al.	264	101		
		5	1	2	6	1	4	5	6/30/92	Evenstad	424	465		
	5	1	3	2	1	4	2	7/21/92	Jones, et al.	427	196			
	5	1	6	7	9	6	4	12/1/92	Muhammed, et al.	424	482			
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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	JM	9	3	1	7	6	6	7	9/16/93	PCT	A61K	9/16		
	JN	9	4	0	3	1	6	0	2/17/94	PCT	A61K	9/32		
	JO	9	4	0	3	1	6	1	2/17/94	PCT	A61K	9/52		
	JP	9	4	0	5	2	6	2	3/17/94	PCT	A61K	9/16		
	JQ	9	4	2	3	7	0	0	10/27/94	PCT	A61K	9/16		
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
	JR	T. Schaefer et al., "Melt Pelletization in a High Shear Mixer II Power Consumption and Granule Growth", Acta Pharm. Nord. Vol. 4, No. 3, pp. 141-148, 1992												
	JS	T. Schaefer, et al., "Melt Granulation in a Laboratory Scale High Shear Mixer", Drug Dev. and Indust. Phar., Vol. 16, No. 8, pp. 1249-1277, 1990.												
	JT	McTaggart, C.M. et al., "The Evaluation of Formulation and Processing Conditions of a Melt Granulation Process", Int'l. J. Pharm. Vol. 19, No. 2, issued 1984, pp. 139-148												
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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	KA	5 1 6 9 6 4 5	12/8/92	Shukla, et al.	424	499	
	KB	5 1 7 8 8 6 8	1/12/93	Malmqvist-Granlund et al.	424	490	
	KC	5 1 9 6 2 0 3	3/23/93	Boehm	424	490	
	KD	5 2 0 4 1 1 9	4/20/93	Shiobara, et al.	424	489	
	KE	5 2 6 6 3 3 1	11/30/93	Oshlack, et al.	424	468	
	KF	5 2 9 2 4 6 1	3/8/94	Juch et al.	264	37	
	KG	5 3 0 0 3 0 0	4/5/94	Egidio, et al.	424	456	
	KH	5 3 9 5 6 2 6	3/7/95	Kotwal, et al.	424	472	
	KI	5 4 0 3 5 9 3	4/4/95	Royce	424	489	
	KJ	5 4 4 3 8 4 6	8/22/95	Yoshioka et al.	424	498	
	KK	5 4 5 3 2 8 3	9/26/95	Münch et al.	424	489	
	KL	5 4 7 2 7 1 0	12/5/95	Klokkers-Bethke, et al.	424	468	
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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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	KN	0 0 3 2 0 0 4	12/09/80	EP (A)	A61K	9/22	
	KO	0 0 4 3 2 5 4	5/30/84	EP (B1)	A61K	9/26	
	KP	0 0 6 8 4 5 0	1/10/90	EP (B1)	A61K	9/20	
	KQ	0 0 9 7 5 2 3	1/04/84	EP (A2)	A61K	9/26	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	KR	El-Shanawany, S., "Sustained Release of Nitrofurantoin From Inert Wax Matrixes", J. Controlled Release, Vol. 26, No. 1, issued 1993, pp. 11-19					
	KS	P. Flanders, et al., "The Control of Drug Releases From Conventional Melt Granulation Matrices", Drug Dev. and Industrial Pharm., Vol. 13, No. 6, pp. 1001-22, 1987.					
	KT	Thomsen, L. Juul, "Matrix Pellets Prolonged Formulations Prepared by Melt Pelletization", Dept. of Pharm. Royal Danish School of Pharmacy, 1992					
EXAMINER 				DATE CONSIDERED 2/5/04			
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U.S. PATENT DOCUMENTS														
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	LD	0	1	5	2	3	7	9	8/21/85	EP (A2)	A61K	9/50	Abstract	
	LE	0	1	8	9	8	6	1	8/6/86	EP (A2)	A61K	47/00		
	LF	0	2	0	5	2	8	2	9/13/95	EP (B1)	A61K	9/22		
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	LK	0	2	4	9	3	4	7	12/16/87	EP (B1)	A61K	31/485		
	LL	0	2	5	1	4	5	9	1/07/88	EP (A2)	A61K	9/22		
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	LN	0	2	5	4	9	7	8	2/3/88	EP (A1)	A61K	9/22		
	LO	0	2	5	6	1	2	7	2/24/88	EP (B1)	C12N	9/00		
	LP	0	2	6	7	7	0	2	5/18/88	EP (A2)	A61K	9/14		
	LQ	0	2	7	1	1	9	3	6/15/88	EP (A2)	A61K	31/485		
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
50	LR	Thomsen, L. Juul, et al., "Prolonged Release Matrix Pellets Prepared by Melt Pelletization I. Process Variables", Drug Development and Industrial Pharmacy, Vol. 19, No. 15, pp. 1867-1887 (1993)												
↓	LS	Thomsen, L. Juul, et al., "Prolonged Release Matrix Pellets Prepared by Melt Pelletization II. Hydrophobic Substances as Melttable Binders", Drug Development and Industrial Pharmacy, Vol. 20, No. 7, pp. 1179-1197 (1994)												
↓	LT	Thomsen, L. Juul, "Utilizing melt pelletization technique for the preparation of prolonged release products", Pelletization, (material elaborated by assistant Prof. Lars Juul Thomsen, Dept. of Pharmaceutics, Royal Danish School of Pharmacy for the DIE course "Pelletization Technology", November 1992, 106 pages plus appendixes												
EXAMINER									DATE CONSIDERED					
									2/8/04					
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U.S. PATENT DOCUMENTS														
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	MD	0	3	5	1	5	8	0	1/24/90	EP (A2)	A61K	9/22		
	ME	0	3	6	1	6	8	0	4/4/90	EP (B1)	A61K	9/46		
	ME	0	3	6	1	9	1	0	4/4/90	EP (A1)	A61K	9/16		
	MG	0	3	7	7	5	1	7	7/11/90	EP (A2)	A61K	31/52		
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	MJ	0	4	3	0	2	6	7	6/5/91	EP (B1)	A61K	9/54		
	MK	0	4	5	2	1	4	5	10/16/91	EP (A2)	A61K	9/14		
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
SD	ML	Thomsen, L. Juul, "Prolonged Release Matrix Pellets Prepared by Melt Pelletization. Part IV: Drug Content, Drug Particle Size and Binder Composition", Pharmaceutical Technology Europa, pp. 19-22 (October 1994)												
	MM	N. Follonier et al., "Evaluation of Hot-Melt Extrusion as a New Technique for the Production of Polymer-Based Pellets for Sustained Release Capsules Containing High Loadings of Freely Soluble Drugs", Drug. Dev. and Industr. Pharm., Vol. 20, No. 8, pp. 1323-1339, (1994)												
	MN	Sustained Release Medications, pp. 50-53, Noyes Data Corp. (J.C. Johnson), 1980.												
	MO	M.A. Longer, "Sustained-Release Drug Delivery Systems", Remington's Pharm. Scia., 18th Edition, pp. 1676-1693, 1990.												
	MP	M. Zahirul I. Khan, "Recent Trends and Progress in Sustained or Controlled Oral Delivery of Some Water Soluble Drugs: Morphine Salts, Diltiazem and Captopril", Drug Devl. and Industr. Pharm., Vol. 21, No. 9, pp. 1037-1070, 1995.												
V	MQ	J.P. Skelly, "Scale-up of Immediate Release Oral Solid Dosage Forms, AAPS/FDA Workshop Committee, Pharmaceutical Technology, pp. 68-74, April 1995.												
	MR	SK Baveja et al., Int. J. Pharmaceutics, 41, (1988), pp. 55-62.												
EXAMINER		Sumon CLR						DATE CONSIDERED 2/8/04						
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50	NB	0	0	2	4	3	0	6	11/17/94	EPO (B1)	A61K	31/135		
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	ND	0	4	0	3	8	3	3	1/02/92	EP (A2)	A61K	9/28		
	NE	0	5	2	6	8	0	2	2/10/93	EP (A1)	A61K	9/20		
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	NG	0	5	3	3	2	0	7	3/24/93	EP (A1)	A61K	9/46		
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	NL	0	5	9	5	3	1	1	5/4/94	EP (A1)	A61K	31/44	Abstract	
	NM	0	0	0	9	9	6	1	8/10/94	EP (A1)	A61K	31/485		
	NN	0	6	2	4	3	6	6	11/17/94	EP (B1)	A61K	31/135		
✓	NO	0	6	3	6	3	7	0	2/1/95	EP (A1)	A61K	31/485		
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
80	NP	Formulating for Controlled Release with METHOCCEL® Premium Cellulose Ethers, The Dow Chemical Company, 1989.												
	NQ	M.S. Vazquez et al., Drug Dev. & Ind. Pharmacy, 18 (11 & 12), pp. 1355-1378 (1992).												
↓	NR	L W S Cheong et al., Pharm. Res. 9 (11), pp. 1510-1514 (1992).												
	NS	Hunt et al., Clin. Ther., Vol. 13, No. 4, pp. 482-488, 1990												
EXAMINER <i>Simon</i>									DATE CONSIDERED <i>2/8/04</i>					
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	OD	1	4	0	5	0	8	8	9/03/75	GB	A61K	9/26		
	OE	1	5	1	3	1	6	6	6/7/78	GB	B29B	1/02		
	OF	2	0	3	0	8	6	1	4/16/80	UK (A)	A61J	3/08		
	OG	2	0	5	3	6	8	1	2/11/81	GB(B)	A61K	9/22		
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	OL	2	2	4	6	5	1	4	2/5/92	GB (A)	A61K	9/16		
	OM	2	2	8	1	2	0	4	3/1/95	GB (A)	A61K	9/16		
	ON	2	2	8	4	7	6	0	6/21/95	UK (A)	A61K	9/16		
	OO	2	6	4	2	4	2	0	8/03/90	FR (A1)	C07C	55/10	Abstract	
	OP	3	6	0	2	3	7	0	8/6/87	DE (A1)	A61K	45/06	Abstract	
	OQ	3	6	2	3	1	9	3	1/14/88	DE (A1)	A61K	31/205	Abstract	
✓	OR	4	3	2	9	7	9	4	3/9/95	DE (A1)	A61K	31/135	Abstract	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
SO	OS	METHOCEL, Colorcon. Technical Information												
EXAMINER <i>Simon Q</i>										DATE CONSIDERED <i>2/8/04</i>				
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30							
FOREIGN PATENT DOCUMENTS							
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							YES NO
30	PB	2 3 3 8 3 8 3	10/25/89	EPO (B1)	A61K	9/54	Abstract
	PC	2 0 8 2 5 7 8	5/24/93	CA	A61K	047/38	
	PD	2 1 5 0 3 0 4	12/1/95	CA (A1)	B01J	2/20	
	PE	2 2 8 1 2 0 4	3/1/95	GB (A)	A61K	9/16	
30	PF	2 2 8 8 7 6 0	6/21/95	GB (A)	161K	9/16	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
30	PG	DA Alderman, Int. J. Pharm. Tech. and Prod. Mfr., 5(3), pp. 1-8, 1984.					
	PH	HE Huber et al., J. Pharm. Sci. 55 (9), Sept. 1966, pp. 874-878.					
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	PJ	Aqualon Technical Information Bulletin, VC-585, 1991					
	PK	P. Colombo, Advanced Drug Delivery Reviews, 11 (1993), pp. 37-57.					
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	PM	JE Hogan, Drug Dev. & Ind. Pharmacy, 15 (8 & 7), p. 975-999, (1989)					
	PN	JL Ford et al., Int. J. Pharmaceutics, 24 (1985), pp. 327-338.					
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	PR	Alan Royce et al., "Alternative Granulation Technique: Melt Granulation", Drug Development and Industrial Pharmacy, 22 (9 & 10), pp. 917-92 (1996).					
30	PS	Derwent Abstract of EP 0208144, published 1-14-87					
EXAMINER				DATE CONSIDERED			
Simon Ch				2/8/04			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: 228.1010		SERIAL NO.: 09/980,727									
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S): Hubert REIN, et al.											
				FILING DATE: October 19, 2001		GROUP: 1615									
U.S. PATENT DOCUMENTS															
*EXAMINER INITIAL	DOCUMENT NUMBER	DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		4	2	8	0	9	7	1							
SD	QA	4	2	8	0	9	7	1	07/28/81	Wischniewski et al.	264	15			
	QB	5	1	4	7	5	9	3	09/15/92	Huttlin	264	500			
	QC	4	9	7	5	2	8	4	12/04/90	Stead et al.	424	497			
↓	QD	4	7	6	2	2	2	0	08/09/88	Lütke	198	519			
	QE														
	QF														
	QG														
	QH														
	QI														
	QJ														
FOREIGN PATENT DOCUMENTS															
		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
		YES	NO												
SD	QK	EP	02	0	8	1	4	4	1/14/87	EPO(A1)	A61K	9/16	Abstract		
	QL	EP	06	7	7	0	6	5	8/25/93	EPO(A1)	A61K	9/16			
↓	QM	9	1	0	4	0	1	5	4/4/91	WO	A61K	9/16			
	QN														
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)															
	QP														
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EXAMINER										DATE CONSIDERED					
Simon Ch										2/8/04					
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				FILING DATE: October 19, 2001		GROUP: 1615	

U.S. PATENT DOCUMENTS												
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE						
	RA	6 2 6 1 5 9 9	7/17/2001	Oshlack et al.	424	457						
	RB	5 9 5 8 4 5 2	09/28/1999	Oshlack et al.	424	457						
	RC	6 3 3 5 0 3 3	01/01/2002	Oshlack et al.	424	457						
	RD	4 6 1 2 0 0 9	09/16/86	Drobnik et al.	604	891						
	RE											
	RF											

FOREIGN PATENT DOCUMENTS												
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION							
					YES	NO						
	RG	0 5 7 4 8 9 4	12/22/93	EPO (A1)	A61K	31/575						
	RH	0 1 1 8 2 4 0	09/12/84	EPO(A2)	C 08 L	3/00						
	RI	9 2 1 5 2 8 5	09/17/92	WD	A61K	9/20						
	RJ	9 8 1 0 7 6 2	3/19/98	WD	A61K	31/435						

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RK	English translation of Japanese text of J.L. White, Twin Screw Extrusion, Technology and Principles, pages 14 and 37, 1981.
RL	
RM	

EXAMINER 	DATE CONSIDERED 2/5/04
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